BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Civil Aim Consultants & Engineers

(Buildings Geo-Test & Highway Materials Testing Laboratory)

An ISO 9001:2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

No.01, Satvika Nilaya,Opp.Widia Poorna Prajna School,Ramaiah Layout Nagasandra Bengaluru -560073.

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QC-ABSTRACT

Name of Work:- "Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	Matenals	–	1	1	Cement
					Sand, Aggregates
2	M15	10.43 Cum	2	2	Concrete Cube Compressive Strength
3	Kerbstones	56 m	1	1	Concrete Core Compressive Strength
4	Designer Tiles	40.50 Sqm	1	1	-
5	Hollow Poles	421.69 sqm	1	1	-

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set
Add 1set for every 50 Cum	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೦೬

CIVIL AIM CONSULTANTS & ENGINEERS

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 27.06.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.G.Venkate Gowda ,** Contractor, Bangalore.
NAME OF THE WORK	:	"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		May-2022
DATE OF TESTING		25.06.2022 TO 27.06.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date : 27.06.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri.G.Venkate Gowda , Contractor, Bangalore.**

Name of Work :"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Date of Testing : 27.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	92	9.20	9.20	90.8	90-100
2.36	129	12.90	22.10	77.9	75-100
1.18	189	18.90	41.00	59.0	55-90
600 Micron	167	16.70	57.70	42.3	35-59
300 Micron	249	24.90	82.60	17.4	8-30
150 Micron	133	13.30	95.90	4.1	0-10

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು-106

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date :27.06.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency :Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of Work :"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Date of Testing :27.06.2022

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	33	3.30	5.40	94.6	70-100
600 Micron	84	8.40	13.80	86.2	40-100
300 Micron	265	26.50	40.30	59.7	5-70
150 Micron	478	47.80	88.10	11.9	0-15

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date : 27.06.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri.G.Venkate Gowda , Contractor, Bangalore.**

Name of Work :"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Date of Testing : 27.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2482	49.6	53.5	46.5	25-55
4.75	1911	38.2	91.7	8.3	0-10

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For CIVIL AIM CONSULTANTS & ENGINEERS

Srikanth

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency : **Sri.G.Venkate Gowda , Contractor, Bangalore.**

Name of Work :"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Date of Testing : 27.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	169	1.13	1.13	98.87	95-100
20	8001	53.34	54.47	45.53	30-70
10	3115	20.77	75.23	24.77	10-35
4.75	2821	18.81	94.04	5.96	0-5

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 27.06.2022

TEST REPORT OF GALVALUME

Client: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency: **Sri.G.Venkate Gowda , Contractor, Bangalore.**

Name of Project: **"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."**

Sample Identification Hallow poles 132*132mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 27.06.2022

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	593
2	Yeild Strength, N/mm^2	517

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date:28.06.2022

TEST REPORT OF GALVALUME

Client: **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency: **Sri.G.Venkate Gowda , Contractor, Bangalore.**

Name of Project: **"Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."**

Sample Identification Flat 12*75mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 28.06.2022

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	597
2	Yeild Strength, N/mm^2	513
3	Thickness mm	12.04

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GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 28.06.2022

TEST REPORT OF GALVALUME

Client: Assistant Executive Engineer, Yelahanka Satellite Town S Division, BBMP, Bangalore.

Agency: Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of Project: "Improvements and Development of Raj Park in Yelahanka New Ward No.04 of Yelahanka Satellite Town sub division."

Sample Identification 20*20mm rod

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 28.06.2022

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	589
2	Yeild Strength, N/mm^2	507

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~~Job No.: CACE/BBMP/GVG/W.No.04/2022-23~~ ~~Date: 28.06.2022~~

TEST REPORT OF GALVALUME

Client: Assistant Executive Engineer, Yelahanka Satellite Town I Division, BBMP, Bangalore.

Agency: Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of Project: "Improvements and Development of Raj Park in Yelahanka New Ward No.04 of Yelahanka Satellite Town sub division."

Sample Identification 50*6mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 28.06.2022

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	618
2	Yeild Strength, N/mm^2	513
3	Thickness mm	6.18

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 28.06.2022

TEST REPORT OF GALVALUME

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency: Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of Project: "Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Sample Identification 72*72*4.8mm

Reference BIS Codes: IS 277:2003, IS 6745:1972, IS 1608:2005, IS 1786:2008

Date of test: 28.06.2022

SL. NO.	TESTS	RESULTS
1	Tensile Strength, N/mm^2	632
2	Yeild Strength, N/mm^2	518
3	Thickness mm	4.92

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Authorised Signatory

No. 01, Sevika Nilaya, Opp. Widia Poorna Prajna School,
Ramakrishna Layout, Nagasandra, Bangalore - 560 073.
Ph: 9886[illegible]9639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 12.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF DESIGNER FLOOR TILES

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Name of Work: "Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Contractor: Sri.G.Venkate Gowda , Contractor, Bangalore.

Reference to BIS codes: IS 1237-2012 Specification for Cement Concrete Flooring Tiles

Date of test: 12.07.2022

WATER ABSORPTION:

Sl. No.	Water Absorption (%)	Acceptablity as per IS 1237-2012
1	6.5	The average water absorption of 6 tiles shall not exceed 10%
2	6.2	
3	6.4	
4	6.3	
5	6.8	
6	6.2	
Average of 6 tiles	6.4	

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FLEXURAL STRENGTH:

Sl. No.	Flexural Strength (N/mm^2)	Acceptablity as per IS 1237-2012
1	3.9	The average modulus of rupture in bending of 6 tiles shall not be less than $3N/mm^2$
2	3.5	
3	3.6	
4	3.7	
5	3.5	
6	3.2	
Average of 6 tiles	3.6	

Remarks:

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 15 days from the date of issue of test certificate

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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 08.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of the work : "Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2022	08.07.2022	8.140	266.2	11.83
2	01.07.2022	08.07.2022	8.158	274.2	12.19
3	01.07.2022	08.07.2022	8.150	282.6	12.56

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For CIVIL AIM CONSULTANTS & ENGINEERS

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/GVG/W.No.04/2022-23 Date: 28.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of the work : "Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2022	28.07.2022	8.185	386.2	17.16
2	01.07.2022	28.07.2022	8.165	379.6	16.87
3	01.07.2022	28.07.2022	8.154	370.2	16.45

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramana Layout, Nagasandra, Bangalore - 560 073.
Ph: [illegible]618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/GVG/W.No.04/2022-23

Date: 28.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : Sri.G.Venkate Gowda , Contractor, Bangalore.

Name of the work : "Improvements and Development of Raj Park in Yelahanka New Town Ward No.04 of Yelahanka Satellite Town sub division."

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2022	28.07.2022	8.169	389.3	17.30
2	01.07.2022	28.07.2022	8.184	370.3	16.46
3	01.07.2022	28.07.2022	8.146	375.2	16.68

Note:

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ಬ.ಬ.ಪಾ.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com